

Title (en)

SDMA for WCDMA with increased capacity by use of multiple scrambling codes

Title (de)

SDMA für CDMA mit erhöhter Kapazität durch die Verwendung mehrerer Verwürfelungskoden

Title (fr)

Accès multiple par répartition spatiale pour accès multiple par répartition en code à large bande avec capacité accrue au moyen de codes d'embrouillage multiples

Publication

EP 2280501 A3 20120314 (EN)

Application

EP 10011198 A 20060724

Priority

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- US 70201805 P 20050722
- US 70823005 P 20050809
- US 21346305 A 20050826

Abstract (en)

[origin: US2007019535A1] Systems and methodologies are described that facilitate increasing system capacity in a code-limited WCDMA (e.g., TDD, FDD, . . .) wireless communication environment. According to one aspect, a larger code space can be defined by introducing multiple code clusters within a sector, wherein each cluster has a unique scrambling code. Codes within a cluster can have orthogonal Walsh sequences that can be assigned to user devices to facilitate communicating over a wireless network and can overlap with codes in another cluster. The unique scrambling code assigned to each cluster can ensure that duplicate Walsh sequences in another cluster in the same sector appear as a pseudo-noise codes.

IPC 8 full level

H04B 1/707 (2011.01); **H04J 11/00** (2006.01); **H04J 13/18** (2011.01)

CPC (source: EP KR US)

H04B 7/0697 (2013.01 - KR); **H04J 13/0048** (2013.01 - EP KR US); **H04J 13/18** (2013.01 - EP KR US); **H04W 72/0466** (2013.01 - KR)

Citation (search report)

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- [A] EP 0957604 A1 19991117 - SONY INT EUROPE GMBH [DE]
- [A] US 2003202563 A1 20031030 - DAS ARNAB [US], et al
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Designated contracting state (EPC)

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DOCDB simple family (publication)

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